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Activities of the Oklahoma Vocational Research Coordinating Unit (RCU) are reported for the interim funding period from December 1, 1966 to August 31, 1968. The unit objectives were coordination of research, generation of new ideas, assisting researchers, and dissemination of results. The unit staff and priority problem areas to which they gave special attention are listed. Some major unit activities were: (1) group and individual conferences fo r coordination of research, (2) submission of 16 proposals for funding and work on 42 projects completed or in progress, (3) 8 in-house studies such as the follow-up study of vocational students and a master plan for determination of area vocational-technical school districts and site locations, (4) dissemination of research findings through information media, newsletters, state meetings, and publication and distribution of 17 reports, (5) training of researchers by working with unit research assistants and small grants principal investigators, (6) attendance at national and regional conferences, and (7) a listing of some planned future activities. (DM)

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REPORT OF RESEARCH IN VOCATIONAL TECHNICAL EDUCATION

INTERIM REPORT

Oklahoma Vocational

Research Coordinating Unit

December 1, 1966-August 31, 1968

by

William W. Stevenson

William D. Frazier

RCU

VOCATIONAL RESEARCH COORDINATING UNIT

OKLAHOMA STATE UNIVERSITY

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Research Report Number 14

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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Continuation of Research Coordinating Unit for Vocational Education in Oklahoma

William W. Stevenson

Oklahoma State University
Stillwater, Oklahoma

December 1, 1966 - August 31, 1968

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U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

Office of Education
Bureau of Research

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PREFACE

The establishment of state units for the coordination of research in vocational education was a unique and challenging experiment by the Bureau of Research, Office of Education. Unique in that funds were provided, not primarily for the purpose of conducting research, but for the purpose of making research more meaningful to those persons in the state who could put findings into practice. Challenging in that personnel of the Units were charged with the responsibility of not only seeing that research is done but of providing the stimulus to bring about change based on the best that we can learn. Although probably only a few far-sighted individuals saw the full potential of the Research Coordinating Units in the beginning; we were, in fact, being asked to become the bridge between science and society--the link between the investigator and the educator--in the field of vocational-technical education.

The Director of the Oklahoma RCU would like to express his deep appreciation to those individuals who have been so firm in their support and so patient in their expectations. Dr. William D. Frazier, Associate Director of the Unit has been the dependable co-worker who saw that things got done--and done correctly. Dr. Francis Tuttle, State Director of Vocational-Technical Education, and his staff have provided the balance which continually made us aware of the need for practical answers to real problems. Dr. Helmer E. Sorenson, Dean of the College of Education, Dr. Maurice Roney, Head of the School of Occupational and Adult Education, and Dr. Robert R. Price, Head of the Department of Agricultural Education, have assisted and advised Unit personnel in the intricate and complex process of university procedures and research coordination. Dr. Marvin Edmison and the staff of the Research Foundation have provided invaluable assistance in the stimulation of research and fiscal procedures. All vocational-technical teacher educators at the various Oklahoma colleges and universities have given constructive, critical advice which has been most helpful and most deeply appreciated.

Finally, the vocational-technical teachers of Oklahoma have cooperated with their time and their interest to making the Research Coordinating Unit a functional part of the program of occupational education in Oklahoma.

INTRODUCTION

The Oklahoma Vocational Research Coordinating Unit established in July, 1965, had as its objectives the coordination, stimulation, and conducting of research and the dissemination of research findings. Stated in more detail, the objectives of the Unit are: (1) to coordinate intrastate vocational-technical research, and to cooperate with other Research Coordinating Units in the coordination of interstate vocational research; (2) to provide assistance to researchers in vocational-technical education in the areas of research design and methodology, review of proposals, identification of problems, and identification of funding agencies; (3) to stimulate activities which will result in increased interest and improved competence in vocational research; (4) to develop and conduct exploratory research in vocational-technical education; (5) to develop procedures whereby relevant research findings may be disseminated to those individuals in vocational education who have need of such information, and to stimulate the use of research results toward the development of innovative practices in the improvement of vocational-technical programs in local schools; and (6) to encourage the development of curriculum guides and teaching materials as directed by research in vocational education.

In the early stages of the development of the Unit greater emphasis was placed on stimulating and conducting research; but as the supply of research findings increased in the state and nationally, it became evident that a major portion of the effort of personnel of the RCU should be concentrated on the phases of coordination and dissemination. Research training both for the production and use of research also appeared as an important area of responsibility of the Unit.

This report covering the second funding period for the Unit - December 1, 1966 to August 31, 1968 - will review the activities designed to accomplish the stated objectives. Future plans for the Research Coordinating Unit will be discussed in the light of what has preceded and with a view to what the needs of the state are expected to be.

GENERAL INFORMATION

I. Vocational Education Research Priorities for Oklahoma.

Oklahoma RCU has, with the assistance of its consulting and advisory boards, defined a set of problem areas which need particular attention if we are to progressively improve vocational-technical education.

We encouraged teachers in the field to develop innovative practices which may be evaluated as we attempt to find solutions to the most pressing problems. The RCU was particularly interested in working with educators on the listed priority areas. However, we were still interested in all researchable vocational education problems.

Following is the priority list of problems to which we gave special attention during the second funding period.

Curriculum Development

1. To develop programs of vocational education for low ability students.
2. To develop a pre-vocational program for the junior high level.

Counseling

1. To establish improved methods of providing occupational information to counselors, students and parents.
2. To develop improved methods for selecting students for vocational-technical education programs.

Communication

1. To develop better communication techniques between school vocational-technical education and business and industry by:
   a. Defining the roles of business and industry in vocational-technical education
   b. Developing procedures for determining needs of business and industry on a continuing basis - and reflecting those needs in vocational-technical education courses.

II. Staff of the Vocational Research Coordinating Unit.

A. Dr. William W. Stevenson, Director and Assistant Professor, College of Education continues full-time with the Unit.

B. Dr. William D. Frazier, Associate Director and Assistant Professor, College of Education has been released one-quarter time from the Unit to teach the advanced statistics course for the College of Education.

C. Dr. William L. Hull, Agricultural Education Department, started with the RCU on February 1 and worked one-quarter time until June 30. Dr. Hull was engaged in development of research proposals and synthesis and dissemination of research findings.

D. Mr. Tim Baker, Research Assistant, has completed his tenure with the Unit and is now Teacher Trainer in Trade and Industrial Education at Morehead State College, Morehead, Kentucky.

E. Mr. David Williams, Research Assistant, was awarded a small grants contract through the Regional Office of the U. S. Office of Education. Mr. Williams completed the research project and received the Ed.D. degree and is now in the Agricultural Education Department, University of Illinois.

F. Mr. Wilfred Bates, Research Assistant, has completed his research and his Ed.D. degree and is now with the Denver School System.

G. Mr. Bob Walls, Assistant for Statistics and Computer Programming, has completed his doctorate and is now with the University of Arkansas Medical Center.

H. Mr. Harry Nowka, Research Assistant, has returned to the staff of Southwestern State College where he will complete his research.

I. Mr. Lloyd Wiggins, Research Assistant, has completed his research and the Ed.D. degree and is now on the staff of the School of Occupational and Adult Education, Oklahoma State University.

J. Mr. Harry Hoerner, Research Assistant, was awarded a small grants contract through the Regional Office of the U. S. Office of Education. Mr. Hoerner completed the research project and received the Ed.D. degree and is now in the Agricultural Engineering Department, Pennsylvania State University.

K. Mrs. Lillie Robinson, Research Assistant, has completed her research and received the Ed.D. degree. Mrs. Robinson is now with the Home Economics Department, Tuskegee Institute.

L. Mr. Gary Lantz, Assistant for Statistics and Computer Programming, has completed his doctorate and is now with Bethany Nazarene College, Bethany, Oklahoma.

M. Mr. Charles Hopkins, Research Assistant, came with the Unit September 1, in the area of Vocational Agriculture.

N. Mrs. Irene Clements, Research Assistant, came with the Unit September 1, in the area of Home Economics.

O. Mr. Jimmie Thrash, Research Assistant, came with the Unit September 1, in the area of Distributive Education.

P. Mr. David Anderson, Research Assistant, came with the Unit September 1, in the area of Technical Education.

Q. Mr. Raymond Heiser came with the Unit September 1, to work in the area of Statistics and Computer programming.

R. Mrs. Carol Bolles and Mrs. Paula Horne are now secretaries for the Unit.

In summary, the staff has continued at or near full strength with the director and associate director, four research assistants, and two secretaries.

ACTIVITIES IN THE COORDINATION OF RESEARCH

I. Group Conferences on Research in Vocational Education:

1. Planning Conference for "A Study of the Grain Elevator Business." Representatives of State Department of Vocational Education, Agricultural Education Department, Agricultural Economics Extension, Grain Elevators Association, Vocational Agriculture Teachers and the Research Coordinating Unit.

2. Planning Conferences for "Research, Development and Implementation of Area Vocational-Technical Training Centers." Representatives of State Department of Vocational Education, Area Vocational-Technical Centers, Economic Development Administration, Economic Development Districts, and the Research Coordinating Unit:

   (1) Oklahoma State University, Stillwater, Oklahoma.
   (2) Area Vocational-Technical Center, Tulsa, Oklahoma.

3. Planning Conference for "Personal and Situational Variables Associated with Innovative Vocational Agriculture Teachers Charged with the Responsibility for Adopting Curricula in Agriculture Occupations." Representatives of State Department of Vocational Education, Agricultural Education Department, and the Research Coordinating Unit.

4. Data collection for "A Study of Oklahoma Florist Businesses." Representatives of Oklahoma Florists Association, Horticulture Department of Oklahoma State University, and the Research Coordinating Unit.

5. Conference on the evaluation of summer institute to train Vocational Agriculture Teachers in Distributive Education Skills.

6. Conference on Progress Reports with Small Grant Projects Investigators:

   Dr. Harold Haswell from the Region VII Office
   Harry J. Hoerner
   Charles Kaiser
   Don Phillips
   David L. Williams

7. Report to High School Plans Advisory Committee: Completed first computer analysis of data and have answers to each question in totals and percentages. Graduate student making further study of selected group of these students.

8. Conference with Oklahoma State University Washington Representative, Bruce Carpenter. Presentation of Behavioral Science Research Funding Procedures, Personnel in Bureau of Educational Research Division.

9. Conference on Cost-Benefit Study of Education: Sponsored by the National Science Foundation and held with the Agricultural Economics personnel of Oklahoma State University.

10. Discussions of Business and Industry Needs Study: The Area Vocational-Technical Center at Duncan, Oklahoma.

11. Conference with Charles Kaiser and Vocational Education Teachers on Instrument Development for Role Conflict Study.

12. Report on Workshop on Teaching Disadvantages: Mrs. Eunice Judd reported on her participation at the Conference on Modification of Perceptions held by Disadvantaged Youth Toward Office Work held at Hunter College in New York in July.

13. Conferences have been held with personnel from the Oklahoma Grain Dealers Association, Enid Area Vocational-Technical School, State Department of Vocational-Technical Education and State Extension Service to investigate the possibility of an Agricultural Technology Program for training employees for grain, feed, and farm supply occupations.

14. Conference with Mr. Charles Kaiser and Vocational Agriculture and T&I Supervisors on Role Study of Vocational Teachers.

15. Conference with Mr. Harry Hoerner, Principal Investigator, and Mr. Glen Dunkin, Other Counselor, on progress of research project entitled "The Effects of On-the-Job Counseling on Employers' Rating and Job Satisfaction of Persons Trained in Selected Oklahoma MDTA Classes During 1967-68."

16. Conference with Dr. Paul V. Braden, Technical Education, Oklahoma State University, and Dr. Thomas C. Points, Oklahoma Medical Center, on study of Paramedical Occupations.

17. Meeting of Home Economics Advisory Council.

18. Meeting of Health Occupations Education Advisory Committee.

19. Conference with T&I Supervisors on Follow-Up study procedures. Report to T&I Teachers conference on future follow-up procedures.

20. Conference with Dr. Robert R. Price, Head of the Agricultural Education Department and Dr. William L. Hull, Assistant Professor of Agricultural Education, on plans for Regional Conference on Research in Agricultural Education. The conference was held at Oklahoma State University on July 30, 31, and August 1. Theme of the conference is Research in Understanding and Implementing Change in Agricultural Education. RCU Directors were invited.

21. Report to Oklahoma Distributive Education Teachers on revised Follow-up Study of Vocational Students.

22. Conference on Educational Professions Development Act proposals with State Department and University personnel.

23. Sponsored trip to Seminar on "Methods of Teaching Agricultural Occupations in Community Colleges and Area Vocational Schools" at Commerce, Texas, for Area School Directors and State Department personnel.

24. Meeting with Kiamichi Area Vocational-Technical School Board to discuss site selection and program planning.

25. The Conference on Research, Regional Office of Education at Oklahoma City University.

26. The Governor's Conference on Vocational-Technical Education, Oklahoma.

27. The California Study of Administration in Vocational Education, Stillwater, Oklahoma.

28. Mid-Winter Conference, Vocational Agricultural Teachers Stevenson - Presentation of Follow-up Study.

29. Conference on Research in Technical Education, Stillwater, Oklahoma with Dr. Scotty Robb, Oklahoma Economic Development Foundation; Mr. Don Harper, OU Research Institute; Mr. Pat Shoat, Industrial Development and Park Department; and Mr. Bill Powers, Technical Education State Supervisor.

30. Mid-Winter Conference, Vocational Home Economics Teachers Presentation of Follow-up Study.

31. Conferences on Airplane Mechanics Training Program with Mr. Giles Lay, American Flyers, Ardmore, Oklahoma; Mr. Troyce McGovern, Southeastern State College, Durant, Oklahoma; Mr. M. R. Traviolia, North American Aviation, Tulsa, Oklahoma; Mr. Don Brown, Technical Education, Oklahoma State University.

32. Conference on Indian Education Proposal with Dr. Buck Benhall and staff of the Bureau of Indian Affairs.

33. Conferences on Evaluation, Vocational Education staff members.

34. Conferences with Vocational Education Follow-up Committee.

II. Number of Individuals with Whom Conferences Were Held in Regard to Coordination of Research in Vocational Education:

1. University Staff Members: 36
2. State Department of Vocational Education Personnel: 47
3. School Administrators and Teachers: 20
4. Graduate Students: 44
5. Others: 20

ACTIVITIES TO STIMULATE RESEARCH IN VOCATIONAL-TECHNICAL EDUCATION

I. Group Conferences to Stimulate Research

1. Conference on Research in Computer Assisted Counseling with Dr. Tommy Roberts of the College of Education at Oklahoma State University. This project was reported to the Southwide Research Coordinating Council Meeting in Montgomery, Alabama.

2. Conference and Trips to Formulate Proposal on Indian Education. Traveled to Shawnee, Oklahoma; Missoula, Montana; and Madera, California with Victor Van Hook, who represented the Oklahoma State Department of Vocational-Technical Education.

3. Conference on Health Occupations Study. Meetings to determine procedures for a manpower needs study in technician level paramedical personnel in Oklahoma. Conferees included: Dr. Thomas Points, Director of the Oklahoma Health Intelligence Facility; Dr. Paul Braden, Technical Education at Oklahoma State University; Dr. John Shearer, Director of Manpower Training and Research Center at Oklahoma State University; and Dr. Wm. D. Frazier, Associate Director of the Vocational Research Coordinating Unit of Oklahoma.

4. Conference on Home Economics Research. Included Dr. Mary Lee Hurt of the Office of Education in Washington, the Home Economics Education Staff of Oklahoma State University, and the Vocational Home Economics Staff.

5. Presentation on Activities of Research Coordinating Unit. Open House for the College of Education at Oklahoma State University was held on Sunday, November 5, 1967, with each department preparing a presentation.

6. Development of questionnaires with Mr. John Hopper, Director of Central Oklahoma Area Vocational-Technical School, and others, for gathering job opportunity and training interest information.

7. Development of procedure for study of "Maturity of High School Licensed Practical Nurse Trainees" with Mrs. Clara Brentlinger, Supervisor of Health Occupations, State Department of Vocational-Technical Education, and her staff. The RCU analyzed data after it was gathered by Health Occupations Staff and teachers.

8. Assisted Data Processing Class, Duncan Area Vocational-Technical School with questionnaire and procedure for doing study of Data Processing Employment Opportunities.

9. Conferences with Bill Powers, Supervisor of Technical Education; Olen Joyner, District Supervisor of Vocational Agriculture; and Arch Alexander, Assistant State Director, on procedures and development of questionnaire for gathering data for preparation of a proposal to H.U.D.

10. Conference on proposal in Health Occupations Education with state staff and U.S.O.E. Regional Office Personnel.

11. Conference with U.S.O.E. Regional Personnel on Oklahoma Research Projects: Dr. Bob Brown, Research Director, College of Education; Dr. Wm. D. Frazier, Associate Director, Research Coordinating Unit; Dr. Bill Stevenson, Director, Research Coordinating Unit; and Mr. Harry J. Hoerner, Graduate Assistant, Research Coordinating Unit.

12. Conference on research project "Occupational Opportunities in Data Processing," Duncan Area Vocational-Technical School.

13. Meeting of Oklahoma State University Research Committee.

14. Conference on Educational Professions Development Act proposal for Area School Administrators, State Department and teacher education staff.

15. Conference with Tulsa Distributive Education Teachers on formulation of questionnaire for "Readership Study of Tulsa Newspapers."

16. Conference with representatives of State Department of Vocational-Technical Education, Welfare Department, Rehabilitation Department, Bureau of Indian Affairs, and State Department of Education on proposal for Residential Vocational School.

17. Conference on implications of Educational Professional Development Act for vocational education with State Department and University personnel.

18. Conference with Lawton Public School personnel on articulation of education conference.

19. Conference to Develop Objectives and Model for a Continuous Exploratory Program Related to the World of Work from Junior High through Senior High, West Georgia College, Carrollton, Georgia.

II. Conferences with Individuals to Stimulate Research

1. University Staff Members: 60
2. State Department Vocational-Technical Education: 20
3. School Administrators and Teachers: 24
4. Graduate Students: 39
5. Business and Industry: 10

III. Proposals Submitted for Funding

1. Summer Institute to Train Data Processing Teachers for the New Oklahoma State-wide Computer Science System and for Other States--Phase II - Bill Powers, John Talbott, State Department of Vocational-Technical Education. This proposal was approved and the institute has been completed. A final report is now being prepared.

2. A Study of Technical-Vocational Education Beyond the High School in Oklahoma. Submitted to the Oklahoma Economic Development Foundation - Dr. Maurice Roney, Dr. Paul Braden, Oklahoma State University. This proposal was approved and the study has been completed. A report entitled "Occupational Education Beyond the High School in Oklahoma" has been distributed.

3. "The Effects of On-the-Job Counseling on Employers' Rating and Job Satisfaction of Persons Trained in Selected Oklahoma Classes During 1967-68." Harry J. Hoerner, Graduate Assistant, Agricultural Education Department, Oklahoma State University. This proposal was approved for a small grants project. The research has been completed and the final report disseminated.

4. "Personal and Situational Variables Associated with Innovative Vocational Agriculture Teachers Charged with the Responsibility for Adopting Curricula in Agricultural Occupations." David L. Williams, Research Assistant, Research Coordinating Unit, Oklahoma State University. This proposal was approved for a small grants project. The research has been completed and the final report disseminated.

5. "An Investigation of Scholastic Aptitude, Social Class Background, and Vocational Interests of Post-High School Technician Education Programs." Donald S. Phillips, Technical Education Department, Oklahoma State University. This proposal was approved for a small grants project. The research has been completed and the final report disseminated.

6. "An Exploratory Analysis of Dual Allegiance Among Selected Vocational Teachers in Oklahoma." Charles H. Kaiser, Graduate Assistant, Sociology Department, Oklahoma State University. This proposal was approved for a small grants project. The research has been completed and the final report disseminated.

7. "A Synthesis of Activities Leading to the Enactment of the Vocational Education Act of 1963," Mary L. Ellis, Graduate Student, Oklahoma State University. This proposal has been approved for a small grants project by the Regional Office, U.S. Office of Education.

8. "Oklahoma Research Coordinating Unit for Vocational Education," Dr. William W. Stevenson. Approved, U.S. Office of Education.

9. "An Institute and Experienced Teacher Fellowship Program in Economic Education for Vocational Teachers from Disadvantaged Rural Areas," William L. Hull, Agricultural Education Department, Oklahoma State University. Preliminary word has been received of the approval of this proposal under the Educational Professions Development Act.

10. "An Interpretive Study of Occupational Analysis Research and Its Application in the Development of Technician-Level Educational Programs," Paul V. Braden, School of Occupational and Adult Education, Oklahoma State University. Not approved.

11. "Development and Evaluation of a Teacher Education Program in Electro-Mechanical Technology," Maurice W. Roney and Paul V. Braden, School of Occupational and Adult Education, Oklahoma State University. Submitted to U.S.O.E. for funding under the Educational Professions Development Act.

12. "Cost Analysis of Two-Year Post-High School Technician Education Programs," Cecil W. Dugger, Technical Education, Oklahoma State University. Submitted to Regional Office of the U.S. Office of Education. Not approved.

13. "A Curriculum Laboratory and Instructional Materials Center for Manpower Development and Training," Hugh Lacy, State Department of Vocational Education. Submitted to U.S. Department of Labor.

14. "Research, Development and Implementation of Area Vocational-Technical Training Centers in the Five Economic Development Districts in Oklahoma," Dr. Francis Tuttle, State Department of Vocational Education. Submitted to Economic Development Administration, U.S. Department of Commerce. Approved.

15. "Vocational Education in the Communication of Concepts Important for Youth Orientation to the World of Work," Mary A. Warren, Home Economics, University of Oklahoma. Submitted to U.S. Department of Health, Education, and Welfare. Not approved.

16. "The Design and Implementation of a State Occupational Training Information System (OTIS) Based on the Needs of Oklahoma," Paul V. Braden. Submitted to U.S. Department of Labor.

IV. Research Projects Completed or In Progress

Research Projects of the Vocational Research Coordinating Unit

"A Study of the Plans of High School Seniors." Research Coordinating Unit, State Board for Vocational Education, and other State Agencies. Completed.

Note: Several spin-off studies form this project are now under way.

"A Three Year Follow-Up Study of Vocational-Technical Education Students." Research Coordinating Unit and State Board of Vocational Education. Annual Enrollment Follow-Up now under way.

"Personnel Needs and Supply in Vocational-Technical Education Above Local Teacher Level." Vocational Research Coordinating Unit. Completed.

"Curriculum and Program Implications in Selected Oklahoma Businesses." Oklahoma Vocational Research Coordinating Unit.

"A Comparative Follow-up Study of Graduates of Two Licensed Practical Nurse Programs in the Oklahoma City Metropolitan Area," State Division of Health Occupations Education and Research Coordinating Unit. Completed.

Current Funded, R.C.U. Sponsored, or R.C.U. Coordinated Research Projects

General

"An Exploratory Analysis of Roles and Role Conflicts of Vocational Teachers in Oklahoma." Dr. Solomon Sutker, Sociology; Dr. John Egermeier, Education; Oklahoma State University, U.S.O.E. Project. Completed.

"The Rehabilitation of School Dropouts in Oklahoma City: An Experimental Appraisal." J. Paschal Twyman; Victor O. Hornbostel; John Egermeier; Oklahoma State University, Ford Foundation Project. Completed.

"Program for Training Manpower Researchers." John C. Shearer, Director, Oklahoma State University, Department of Labor Project.

"Disabilities in Oklahoma: Estimates and Projections." Michael Bohleber, Sociology Department at Oklahoma State University. Funded by Vocational Rehabilitation Department. Completed.

"Research, Development and Implementation of Area Vocational-Technical Training Centers in the Five Economic Development Districts in Oklahoma." Dr. Francis Tuttle, State Department of Vocational Education, Economic Development Administration Project.

"An Analysis and Evaluation of Federal Guidelines and State Plans for Vocational Education." Bob Vandiver, University of Oklahoma. Completed.

"An Analysis of the Personal, Social, and Economic Characteristics of Vocational-Technical School Trainees." Gordon E. Von Stroh, Economics Department, University of Oklahoma. Completed.

"A Comparative Study of Some Effects of Varying Degrees of Vocational Education of High School Graduates." Tim Baker, Vocational Research Coordinating Unit, Oklahoma State University.

"Developing a System for State-Wide Selective Dissemination of Research Information on Vocational-Technical Education." Jimmie Thrash, Research Assistant, Research Coordinating Unit, Oklahoma State University.

Occupational Training Information System. Dr. Paul Braden, School of Occupational and Adult Education, Oklahoma State University; State Department of Vocational-Technical Education, Oklahoma Industrial Development Commission, Department of Labor, U.S. Office of Education.

"Identification of Concepts Important for Youth Orientation to the World of Work." Phase I. Miss Mary Warren, Home Economics Education, University of Oklahoma. U.S.O.E. Project. Completed.

"Generalizations Related to Concepts Important for Youth Orientation to the World of Work." Phase II. Dr. Alice Whatley, Home Economics Department, University of Oklahoma; Oklahoma State Board for Vocational Education. Completed.

"An Exploratory Analysis of Dual Allegiance Among Selected Vocational Teachers in Oklahoma." Charles Kaiser, Sociology Department at Oklahoma State University. Funded by U.S.C.E. Regional Office. Completed.

"A Synthesis of Activities Leading to the Enactment of the Vocational Education Act of 1963." Miss Mary Ellis, College of Education, Oklahoma State University. Funded by U.S.O.E. Regional Office.

Home Economics

"Training Program for Teachers and Leaders of Gainful Employment Training Programs in Home Economics." Dr. June Cozine, Home Economics Department, Oklahoma State University. U.S.O.E. Project. Completed.

"A Pilot Study for Gainful Employment in Home Economics." Dr. June Cozine, Home Economics Department, Oklahoma State University. U.S.O.E. Project. Completed.

"Determining Employment Needs, Educational Feasibilities, and Potential Enrollments in Occupational Home Economics at the Post-Secondary Level in Oklahoma." Dr. Lillie Robinson, Home Economics Department, Oklahoma State University and Research Assistant, Research Coordinating Unit. Completed.

"A System for Evaluation of Gainful Employment Programs in Home Economics with Implications for Teacher Education." Irene Clements, Research Assistant, Research Coordinating Unit, Oklahoma State University.

Vocational Agriculture

"Training Institute to Upgrade Teachers of Vocational Agriculture in Distributive Education and Supervised Training in Off-Farm Agriculture Occupations." Dr. William Hull, Agriculture Education Department, Oklahoma State University. U.S.O.E. Project. Completed.

"A Study of Employment Opportunities and Training Needs in Off-Farm Agricultural Occupations." Dr. William Stevenson, Director, Vocational Research Coordinating Unit; State Board for Vocational Education; and Oklahoma State University. Completed.

"An Examination of the Cooperative Attitudes Between Vocational Agriculture Instructors and County Agents in Planning and Conducting Instructional Programs in Oklahoma." Wendell L. Smith and William L. Hull, Agricultural Education Department, Oklahoma State University. Completed.

"Problems of Implementing Agricultural Occupations Programs in Twenty Eight Selected Vocational Agricultural Departments." Cleo A. Dupy and William L. Hull, Agricultural Education Department, Oklahoma State University. Completed.

"Job Title Profiles in Off-Farm Agricultural Occupations." Dr. William Stevenson, Director, Research Coordinating Unit. Completed.

"Personal and Situational Variables Associated with Innovative Vocational Agriculture Teachers Charged with the Responsibility for Adopting Curricula in Agriculture Occupations." David Williams, Research Assistant, Research Coordinating Unit. Funded by U.S.O.E. Regional Office. Completed.

M.D.T.A.

"The Effects of On-the-Job Counseling on Employers Rating and Job Satisfaction of Persons Trained in Selected Oklahoma M.D.T.A. Classes During 1967-68." Harry J. Hoerner, Agricultural Education Department, Oklahoma State University. Funded by U.S.O.E. Regional Office. Completed.

Technical Education

"An Investigation of Scholastic Aptitude, Social Class Background, and Vocational Interests of Post-High School Technical Education Programs." Donald S. Phillips, Technical Education, Oklahoma State University. Funded by U.S.O.E. Regional Office. Completed.

"A Study of Technical-Vocational Education Beyond the High School in Oklahoma." Dr. Maurice Roney, Head, School of Occupational and Adult Education, Oklahoma State University; Dr. Paul V. Braden, School of Occupational and Adult Education, Oklahoma State University. Completed.

"Summer Institute to Train Data Processing Teachers for the New Oklahoma State-Wide Computer." Lee Hardwick, Dr. Francis Tuttle, Bill Powers, State Board of Vocational Education. U.S.O.E. Project. Completed.

"A Research and Development Project in an Emerging Occupational Field--Electro-mechanical Technology." Dr. Maurice Roney, Department of Technical Education, Oklahoma State University. U.S.O.E. Project.

"An Examination of the Relationship of Selected Variables to Interstate Geographic Mobility of Technician Graduates of the Associate Degree Programs in Oklahoma." Wilfred M. Bates, Research Coordinating Unit, Oklahoma State University. Completed.

"Cost Analysis of Two-Year Post-High School Technician Education Program." Cecil Dugger, Department of Technical Education, Oklahoma State University. Completed.

"Review and Synthesis of Research in Technical Education in Oklahoma." David Anderson, Research Assistant, Research Coordinating Unit, Oklahoma State University.

Health Occupations Education

"An Investigation of Reading Skills, General Mental Ability and Personality Variables Used in the Selection of Practical Nursing Students." Albert Grant McCormic, Oklahoma State University. Completed.

Business and Office Education

"An Experiment in Varying the Timing of Reinforcements by Knowledge of Correct Response in Teaching of Selected Related Learnings in Transcription Classes." Arnola Bose, College of Business, Oklahoma State University. Completed.

Area Vocational-Technical Schools

"The Effect of Student Motivation and Institutional Selection Process on Area Technical School Student Achievement." Marsena Norris, Department of Agricultural Education, Oklahoma State University. Completed.

"A Master Plan for the Development of Area Vocational-Technical School Districts in Oklahoma." Charles Hopkins, Research Assistant, Research Coordinating Unit, Oklahoma State University.

Students With Special Needs

"An Evaluation of Institutional Vocational Training Received by American Indians through the Muskogee Area Office of the Bureau of Indian Affairs." Paul R. Blume, Economics Department, Oklahoma State University. U.S. Department of Labor Project. Completed.

Addenda

"A Study of Attitudinal Changes of Student Teachers in Agricultural Education." Lloyd L. Wiggins, Department of Agricultural Education, Oklahoma State University. Completed.

"Student Related Factors Influencing the Effectiveness of Vocational Training in Area Vocational Schools of Oklahoma." Education Department, Oklahoma State University.

"An Examination of Applicability of Training in Interaction Analysis for Student Teachers in Home Economics." Joan Baird, Home Economics Education Department, Oklahoma State University.

"A Comparative Analysis of the Impact of Various Types of Curricula on the Vocational Success of School Dropouts." Gerald E. Boggs, Education Department, Oklahoma State University.

ACTIVITIES IN THE CONDUCT OF RESEARCH

1. Study of the Plans of High School Seniors

The Oklahoma RCU in cooperation with a number of state agencies (Oklahoma State Tech; Oklahoma Association of School Administrators; Board of Regents for Higher Education; Oklahoma Employment Security; State Department of Education, Dropout Division and Guidance and Counseling; State Department of Vocational Education; Research Coordinating Unit; Vocational Rehabilitation; Oklahoma Commission on Educational Administration) conducted a state-wide study of the immediate and long-time plans of the approximately 40,000 high school seniors in Oklahoma. The questionnaire, developed by the agencies involved, was administered by the local high school to all senior students. Answers were recorded on a standard answer sheet which will transmit answers to an optical scanner for card punching. Usable returns were received from 29,798 (86%) of Oklahoma's 1967 Senior class. The RCU analyzed the data and disseminated the findings to those involved in education in the state. Many high schools in the state have been furnished with an analysis of their particular senior classes.

A number of research projects using this base data are now underway.

2. Follow-Up Study of Vocational Students

The Oklahoma RCU in cooperation with the State Department of Vocational Education has conducted a pilot follow-up study of vocational graduates and leavers for the years 1963-1967. Each vocational teacher was given responsibility for recording the information regarding graduates and leavers of his vocational department on visual scanner sheets for automatic card punching. The computer was used to analyze and store information for this study which will be continuous. A committee of vocational education supervisors assisted the RCU in developing materials for the study. The questionnaire was pretested with vocational teachers in Stillwater school and the Tulsa Area Vocational-Technical Center.

After the initial study instruments and procedures were revised to effect a continuous enrollment and follow-up system for all vocational students. This system will gather data needed by the State Department of Vocational-Technical Education for reports and supply placement information to assist in decision making.

3. Study of Selected Oklahoma Businesses for Program and Curricula Implications.

The Officers, Boards of Directors and Executive Secretaries of associations of a number of Oklahoma businesses are being contacted to arrange for meetings with the Research Coordinating Unit Director and State Department Vocational Supervisors. These representatives of the businesses will be asked to estimate present and future needs in number of employees and to indicate tasks performed at different levels of the business. Information obtained will be used in planning future programs and in developing curricula.

4. Vocational Training for Disadvantaged Youth:

Data is being gathered to determine numbers of school age youth having economic, educational or physical handicaps. A study sponsored by the Vocational Rehabilitation Department through the Research Coordinating Unit is completed and furnishes data on the number and type of physically handicapped people in Oklahoma. Determination of the numbers and types of other disadvantages among our school age population is now being made by a questionnaire developed by the RCU and Assistant Director of Vocational-Technical Education.

5. Selection of School Site for Area Vocational-Technical Schools

The RCU has, at the request of area school districts and the State Department of Vocational-Technical Education, conducted in-depth studies to assist in selection of the school site within an area Vocational-Technical school district. Studies have been completed and reports made to:

Gordon Cooper Area Vocational-Technical School
Central Oklahoma Area Vocational-Technical School
Kiamichi Area Vocational-Technical School
Canadian Valley Area Vocational-Technical School
McClain--Cleveland--Garvin County Area Vocational-Technical School

A computer process using linear programming has now been developed which will effectively consider all site selection criteria for a more rapid and comprehensive site determination. It is anticipated that other districts will request this service.

6. Evaluation of Local School Programs of Vocational Education

Personnel of the RCU in conjunction with State Department Supervisors have developed procedures and reports on the evaluation of the Vocational Education programs of local schools. At the request of

the local administration, evaluation teams including RCU Personnel have visited the following schools to assist in evaluation and planning for more effective Vocational education in the community.

Miami High School
Fox High School
Idabel High School
Broken Bow High School
Valliant High School
Wright City High School

7. A Master Plan for Determination of Area Vocational-Technical School Districts and Site Locations.

Linear programming will be used to look at alternative district boundaries. The programming model will select the area school districts that indicates the least amount of student miles traveled using the specified criterion necessary for forming an Area Vocational-Technical School district. Upon completion of this plan, a state-wide system of Area Vocational-Technical Schools will be accessible to every student in the state who wishes to attend.

8. Study of Maturity of High School Licensed Practical Nurse Trainees.

RCU personnel, in conjunction with state staff from the Health Occupations Training Division developed a study for the purpose of evaluating the effectiveness of the Midwest City High School Licensed Practical Nurse program. The Midwest City program is to some extent an experimental program since it is the only program for high school seniors in Oklahoma. Graduates of the program were compared with an adult program which was known to be an effective LPN Program. Instruments were used to elicit job information and recommendations concerning the LPN program and employers' ratings of the graduates' vocational success.

Initial analysis and a preliminary report have been completed.

ACTIVITIES TO DISSEMINATE VOCATIONAL TECHNICAL RESEARCH FINDINGS

1. Newsletter.

   VEIN (Vocational Education Information Newsletter) is being distributed bimonthly during the school year by the Unit. The circulation of VEIN is to approximately 1575 Oklahoma Vocational Teachers, Research Coordinating Units and Researchers. Feedback has indicated that the Newsletter is widely read and is an effective dissemination instrument.

2. Oklahoma State University Vocational-Technical Education Council.

   Representatives of Vocational-Technical Teacher Education, Vocational Research Coordinating Unit, Oklahoma State University Tech Institute on campus and at Oklahoma City, and Oklahoma State University Tech at Okmulgee, have organized a Council to represent Vocational Education within the university. The objectives of the Council are:

   1. To identify and define the role of Oklahoma State University in the field of vocational and technical education.

   2. To provide a forum for exchange of ideas among the vocational-technical services.

   3. To contribute to the development of a dictionary of terms for vocational and technical education.

   4. To identify common research problems and to disseminate research findings.

3. Meeting of the State Department of Vocational Education and Oklahome State University.

   Through the efforts of Dean Lela O'Toole, College of Home Economics, a meeting has been held to promote cooperation between the State Department of Vocational Education and Oklahoma State University. A Position Paper on the Role of Vocational-Technical Education in the University was presented by Dr. William Stevenson, Director, Research Coordinating Unit. Representatives of all the divisions of Vocational Education and the administration and Vocational-Technical Education Department of the University met to create better understanding and to explore methods of greater cooperation. Appearing on the program were:

Dr. Francis Tuttle, incoming State Director for Vocational Education
Dr. Robert Kamm, President, Oklahoma State University
Mr. Byrle Killian, Assistant State Director
Dr. William Stevenson, Director, Vocational Research Coordinating Unit and Chairman of the Oklahoma State University Vocational-Technical Education Council
Dr. Lela O'Toole, Dean, College of Home Economics, and Member of the National Vocational Council

4. State Meetings.

The Oklahoma Research Coordinating Unit has been represented at the following state meetings.

1. Oklahoma Adult Education Association
2. Workshop on Generalization of Concepts--Important for Youth Orientation to the World of Work
3. Home Economics State Advisory Committee
4. State Future Farmers of America Convention
5. Collegiate Future Farmers of America Banquet
6. Oklahoma State University Council-Technical Education
7. Oklahoma Grain Dealers Meeting
8. Oklahoma State University Vocational-Technical Education Meeting
9. Oklahoma Education Research Clinic, Regional U.S. Office Meeting
10. Oklahoma Vocational Business Teachers Conference. Report on Research in Vocational Education.
11. Oklahoma Vocational Agriculture Teachers Conference. In cooperation with the State Department of Vocational Education, the Research Coordinating Unit distributed some 600 revised lesson plan sheets to each of the 400 Vocational Agriculture teachers in the state.
12. Institute for Training of Data Processing Teachers. This institute funded through the Bureau of Research, U.S. Office of Education, provided a second summer's training for teachers in Oklahoma's state-wide data processing system.
13. Counselor's Workshop. This two-weeks workshop developed occupational information teaching guides for classes K through 12.
14. Monthly Department Heads and Directors' meetings of the College of Education.
15. Oklahoma Vocational Home Economics Teachers Conference.
16. Oklahoma Trade and Industrial Education Workshop. Report on Research in Vocational Education.
    Meetings with Welder and Electronics Sections on visual aids.
17. Oklahoma Distributive Education Teachers Conference. Report on Research in Vocational Education.
18. Conference on Report of Role Study with the Principal Investigator and State Department of Vocational Education personnel.
19. Report to Oklahoma Public School Research Council. Resume of Research Coordinating Unit services available and Research Coordinating Unit research of particular interest to public school superintendents.

20. Report on Three-Year Follow-up Study. State Department of Vocational-Technical Education Staff Meeting.
21. Report on Follow-up Study. Reported on the Distributive Education results at the Oklahoma Vocational Association Meeting.
22. Report on Training Program Plans. Grain Elevator Managers Conference. Plans are being developed for a training program in Enid at the Autry Vocational-Technical Center.
23. Conference on Curriculum in Horticulture. Representatives included: M.J. Ruley, Director, Vocational-Technical School at Tulsa; Estell Smith, Horticulture Instructor, Tulsa Area Vocational-Technical School.
24. Four-State Conference at Pittsburg, Kansas. Dr. Wm. D. Frazier presented a paper on curriculum materials in Vocational Education.
25. Dr. John C. Egermeier, Associate Director of the Research Foundation, reported to State Vocational-Technical Staff on the recently completed study entitled "An Exploratory Analysis of Role Conflicts of Vocational Teachers in Oklahoma."
26. Mr. Dale Cotton, Public Information Officer for the State Department of Vocational-Technical Education, sent news stories on Follow-up (1963-66) to all state newspapers.
27. Report to Gordon Cooper Area School Board on results of study of school site location.
28. Report to the Central Oklahoma Area School Board on results of study of school site location.
29. Meetings with Oklahoma Consortium of Colleges and Universities
    Report of E.R.I.C. System
    Report on Oklahoma Dissemination System
    Report on Research in Vocational-Technical Education
30. Tulsa Vocational-Technical Teachers' Workshop Report on Services of Oklahoma RCU.
31. Health Occupations Teachers' Summer Conference
    Report on Study of Maturity of High School Licensed Practical Nurse Trainees.
32. Business and Office Teachers' Workshop
    Report on Research in Vocational Education
33. Report to Oklahoma Grain Dealers Association on "A Study of Grain Elevator Businesses in Oklahoma."
34. Report to Home Economics Student Teachers on research in vocational education and home economics education.

5. Group Conferences.

The Research Coordinating Unit has been involved in the following conferences to represent Vocational Research:

Agriculture Education Staff, Oklahoma State University
Research Information Exchange Committee, Oklahoma State University
Vocational Guidance Summer Workshop Planning, State Department of Education

Department Heads and Directors, College of Education, Oklahoma State University
M.D.T.A. Supervisors
Vocational Agriculture Supervisors
Home Economics Supervisors
Northwest Oklahoma School Superintendents, Title III Proposal
Vocational Education Supervisors
Technical Education Supervisors
Distributive Education and Business Staff, Oklahoma State University
Graduate Students, Small Grants Proposals

6. Publications:

The Oklahoma Research Coordinating Unit has reproduced and/or distributed the following reports to Research Coordinating Units, Vocational Education Administrators, business leaders, and other interested parties:

1. "An Examination of the Relationship of Selected Variables to Interstate Geographic Mobility of Technician Graduates of the Associate Degree Programs in Oklahoma," Wilfred M. Bates.
2. "Personal and Social Background Characteristics of Entering Technician Education Students at Four Post-High School Institutions," Donald S. Phillips.
3. "A Cost-Benefit Study of Post-High School Technical Education in Oklahoma," Robert Lee Dupree.
4. "The Development of Post-High School Technical-Vocational Education in Oklahoma," Robert Vernon Freed.
5. "The Adaptation of PERT for Coordinating Interdisciplinary Manpower Research in a University Setting--A Descriptive Study," David Allen Anderson.
6. "A Study of Attitudinal Changes of Student Teachers in Agricultural Education," Lloyd L. Wiggins.
7. "Determining Employment Needs, Educational Feasibilities, and Potential Enrollments in Occupational Home Economics at the Post-Secondary Level in Oklahoma," Lillie McCray Robinson.
8. "An Empirical Analysis of Role Conflict and Multiple Allegiance Among Selected Vocational Teachers in Oklahoma," Charles H. Kaiser.
9. "Variables Influencing Teacher Adoption of Cooperative Agricultural Occupations Curricula," David Lewis Williams.
10. "A Socio-Economic Study of Vocational-Technical Education Students," Gordon Von Stroh.
11. "Machinery Costs on 20 Irrigated Farms in Harmon Country," Bill B. Corning.
12. "The Effect of On-The-Job Counseling on Employers' Rating and Job Satisfaction of Persons Trained in Selected Oklahoma MDTA Classes during 1967-68," Harry J. Hoerner.
13. Report on "Southern Research Conference on Agricultural Education," Bill Stevenson and William Hull.

14. "Expectation of Oklahoma Firms Concerning Occupational Curricula for State Junior Colleges," Theodore H. Voth.
15. "The Research Requirements of United States Graduate Programs Offering a Master's Degree in Agricultural Education During 1966-67," Richard Edsall and Robert Price.
16. "Youth Orientation to Employment: Concepts and Generalizations," Alice Elrod Whatley.

7. Future Dissemination Activities

Selective Dissemination of Information

The Oklahoma RCU has cooperated with a number of other RCUs and under the leadership of Doug Towne, Director, Tennessee RCU, in the development of a selective dissemination system.

Through the Selective Dissemination of Information (SDI) system, specific research will be directed to individuals by particular audience categories. Periodically, members of individual audience categories will receive a flyer of pertinent abstracts relative to their particular area of interest.

The audience categories will be divided as follows:

1. Agricultural Education
2. Business and Office Education
3. Distributive Education
4. Guidance and Personnel
5. Health Occupations Education
6. Home Economics Education
7. Manpower Development
8. Technical Education
9. Trade and Industrial Education

A. Teachers and Counselors
B. Supervisors and Administrators
C. Teacher Educators

Complete copies of the research will be available free of charge to all teachers, teacher educators, and state department personnel. They are available on microfiche and may be obtained through the state Research Coordinating Unit. Paper copies of the research may also be obtained for a nominal cost per page.

A network of 20 microfiche readers has been established across the state and will be available for use by interested persons.

Ohio State Center Ad Hoc Committee on Dissemination

As a member of the Ohio State Center's Ad Hoc Committee on Dissemination, the Director has been involved in the development of the "Guidelines" and the "Operational Handbook" on dissemination procedures. It is anticipated that the system devised by the committee will be implemented in Oklahoma as soon as practical.

UNIT ACTIVITIES IN THE TRAINING OF RESEARCHERS

1. Research Assistants and Small Grants Principle Investigators.

One of the needs first recognized by the RCU staff was for the training of additional researchers in vocational education. It was decided that the most effective way to train researchers was to give students with promise the opportunity to engage in a research project along with graduate study. Graduate Research Assistants were engaged to work for the Unit half time while pursuing a doctoral degree in some area of vocational education or educational administration. These people were assisted with problem identification, instrument development, data gathering, data analysis, and dissemination methods suited to their interests. Frequent conferences with vocational education supervisory personnel, vocational teachers, vocational teacher educators, University staff, and resource persons were arranged.

Other graduate students were encouraged and assisted with the preparation of proposals for small grants funds to carry out research projects. Of six proposals in vocational-technical education submitted, five were funded by the Dallas Regional Office.

The following individuals have received these kinds of in-depth research experiences:

RCU Research Assistants

David Williams, Agricultural Education, Ed.D. degree.
Harry Hoerner, Agricultural Education, Ed.D. degree.
Lillie Robinson, Home Economics Education, Ed.D. degree.
Wilfred Bates, Technical Education, Ed.D. degree
Tim Baker, Trade & Industrial Education, working toward Specialist Degree.
Lloyd Wiggins, Agricultural Education, Ed.D. degree.
Jimmie Thrash, Distributive Education, Candidate for Ed.D. degree.
Irene Clements, Home Economics Education, Candidate for Ed.D.
David Anderson, Technical Education, Candidate for Ed.D. degree.
Charles Hopkins, Agricultural Education, Candidate for Ed.D.
Harry Nowka, Business Education, Candidate for Ed.D. degree.

Small Grants Principle Investigators

Don Phillips, Technical Education, Ed.D. degree.
Charles Kaiser, Sociology, Ed.D. degree.
David Williams, Agricultural Education, Ed.D. degree.
Harry Hoerner, Agricultural Education, Ed.D. degree.
Mary Ellis, Vocational Education, Candidate for Ed.D.

The visit of Dr. Harold Haswell, Research Director of the Regional Office of the U.S. Office of Education, afforded the Unit an opportunity to arrange a number of meetings and conferences. The following individuals discussed their research projects and activities with Dr. Haswell:

Donald S. Phillips, Technical Education
Harry J. Hoerner, Agricultural Education
David L. Williams, Research Coordinating Unit
Charles Kaiser, Sociology
Lillie Robinson, Research Assistant, RCU
Lloyd Wiggins, Research Assistant, RCU
Wilfred Bates, Research Assistant, RCU
Harry Nowka, Research Assistant, RCU

Meetings with Dr. Haswell were arranged through the Unit for the following staff members:

Dr. William L. Hull, Agricultural Education
Dr. John C. Egermeier, Research Foundation
Dr. Marvin T. Edmison, Research Foundation
Dr. Robert Alciatore, College of Education
Dr. Robert Griffith, College of Business

OTHER ACTIVITIES

1. National and Regional Meetings and Conferences

    1. Southern Agricultural Education Research Conference, Stillwater, Oklahoma.

       Bill Stevenson, RCU Director and William Hull, Agricultural Education Department, OSU were co-directors of this research conference built around the title of "Research in Understanding and Implementing Change in Vocational Agriculture." A report of the Conference will be distributed by the Unit.

    2. Southwide Research Coordinating Council.

       Sponsored by the Center for Research in Vocational Education, North Carolina State University, this Council brings together occupational researchers from various agencies in the Southern states. These meetings are held semi-annually.

    3. Research Conference, Wyoming State University, Laramie, Wyoming.

       Oklahoma RCU Director served as consultant for the vocational Research Conference sponsored by Wyoming State University.

    4. Region VII Vocational Education Conference, Houston, Texas.

    5. Conference on Education and Training of Racial Minorities, Wisconsin Center, Madison, Wisconsin.

    6. Meeting on Regional Research, Regional Office personnel and OSU Researchers.

    7. Four-States RCU Directors Conference (Oklahoma, Arkansas, Missouri, and Kansas), Mid-continent Research Educational Laboratory, Kansas City, Kansas.

    8. National RCU Directors Annual Meeting, East Lansing, Michigan.

    9. Western States RCU Directors Annual Meeting, Las Vegas, Nevada.

    10. National Manpower Conference "The Rural to Urban Shift" Sponsored by Senator Fred Harris and Oklahoma State University.

    11. Exploratory meeting on Educational Professions Development Act Dallas, Texas.

    12. Western States RCU Directors Meeting, Phoenix, Arizona.

13. Research Management Conference, Ohio State University.

14. American Education Research Association Meeting, New York City.

15. American Educational Research Association Meeting, Chicago, Illinois.

    A.E.R.A. Pre-session "Multivariate Design and Analysis in Educational Research" Evanston, Illinois.

16. National Curriculum Clinic, Kansas City, Missouri.

17. American Vocational Association Convention, Denver, Colorado.

18. American Vocational Association Convention, Cleveland, Ohio.

19. Conference to Develop Objectives and Models for a Continuous Exploratory Program Related to the World of Work from Junior High through Senior High, West Georgia College, Carrollton, Georgia.

II. State Meetings and Conferences

1. Monthly meetings of Staff of the State Department of Vocational-Technical Education.

2. Monthly meeting of the Department Heads and Directors of the College of Education, Oklahoma State University.

3. Annual Vocational-Technical Teachers Summer Conference.

4. OSU Research Information Exchange Committee meeting on call.

5. Annual Meeting Oklahoma Vocational Association.

6. Multi-Purpose Training Center, University of Oklahoma.

7. Participated in each vocational division's teachers workshops with reports on research in vocational education.

8. Visits to approximately 200 schools to visit with vocational teachers and administrators.

9. Participate in guidance workshops on vocational counseling.

III. Special Activities

1. Field Reader for U.S. Office of Education, Bureau of Research.

2. Governor's Air Education Committee.

3. President, National RCU Directors Association.

4. Member, Ad Hoc Committee on Dissemination, Center, Ohio State University.

5. Member, Ad Hoc Research Advisory Committee, Bureau of Research.

6. Member, OSU Doctoral Committees.
   Stevenson: 12 Doctoral Candidates
   Frazier: 14 Doctoral Candidates

7. Member, Ad Hoc Committee for Research and Statistics Curriculum Development.

8. Secretary, Oklahoma State University Chapter of Phi Delta Kappa.

9. President, Oklahoma State University Chapter of Phi Delta Kappa.

FUTURE ACTIVITIES FOR OKLAHOMA VOCATIONAL RESEARCH COORDINATING UNIT

In conference with Dr. Francis Tuttle, State Director of Vocational-Technical Education and Dr. William Stevenson, Director, Research Coordinating Unit, it was determined that the following activities seemed most appropriate for the RCU.

1. Evaluation of Vocational-Technical Education.
   a. Assist with state-wide evaluation by gathering and analyzing needed data.
   b. Continue with evaluation of local schools occupational education programs upon request.
   c. Combine the efforts of the Enrollment and Follow-Up study with the OTIS (Occupational Training Information System).
   d. Assist State Advisory Committee with Evaluation upon request.

2. Master Plan for Vocational-Technical Education.
   a. Review procedures of other states and report to State Director.
   b. Be prepared to coordinate master plan committees upon request.

3. Dissemination of Research Information.
   a. Implementation of RCU/SDI (Selective Dissemination of Information).
   b. Develop state Research Information Centers for Dissemination.
   c. Develop search and retrieval procedures.
   d. Continue work on Ad Hoc committee on dissemination with Center at Ohio State and implement system when feasible.
   e. Continue publication of VEIN (Vocational Education Information Newsletter).

4. Review and Recommendation of proposals
   a. Research Advisory Task Force to set priorities for research.
   b. Committees of specialists to review and recommend proposals for funding.
   c. Monitor research projects and act as liaison between Principle Investigator and State Director.

5. State Advisory Committee
   a. Assist State Advisory Committee with evaluation criteria and data upon request.

6. Synthesis and Interpretation of research in vocational-technical education.
   a. As staff time allows, research should be interpreted for more effective use by teachers and supervisors.
   b. Consider an additional staff member to work in this area.

7. Discretionary Award Fund.
   a. Confer with State Department personnel to identify areas of emphasis.
   b. RCU staff evaluate improved practices to be emphasized.
   c. Involve vocational teachers in appropriate phases of the program.

8. Stimulate Research.
   a. Continue present efforts aimed at stimulation of research.

9. Coordination of research.
   a. Continue efforts aimed at coordination of interstate research.
   b. Continue efforts aimed at coordination of intrastate research.

10. Research Assistants.
    a. Continue and expand present program of research assistantships.

11. Articulation of Vocational Education
    a. Continue work with Lawton Public Schools in articulation program.

The Oklahoma Vocational Research Coordinating Unit is the research arm of the State Department of Vocational-Technical Education. The objectives of the Unit are: (1) to coordinate intrastate vocational-technical research, and to cooperate with other Research Coordinating Units in the coordination of interstate vocational research; (2) to provide assistance to researchers in vocational-technical education in the areas of research design and methodology, review of proposals, identification of problems, and identification of funding agencies; (3) to stimulate activities which will result in increased interest and improved competence in vocational research; (4) to develop and conduct exploratory research in vocational-technical education; (5) to develop procedures whereby relevant research findings may be disseminated to those individuals in vocational education who have need of such information, and to stimulate the use of research results toward the development of innovative practices in the improvement of vocational-technical programs in local schools; and (6) to encourage the development of curriculum guides and teaching materials as directed by research in vocational education.

The operation of the Research Coordinating Unit is supported by the State Board for Vocational-Technical Education with 75% federal monies

from Part C of P.L. 90-576 and 25% state funds. The Director of the Unit is directly responsible to both the State Board for Vocational-Technical Education through the Supervisor of Special Services and the State Director; and to Oklahoma State University through the Head of the School of Occupational Education and the Dean of the College of Education. A proposal containing a five year plan of operation for the R.C.U. shall be submitted to the State Director prior to the beginning of fiscal year 1970.

Additional research projects may be funded by the State Director of Vocational-Technical Education from monies received under Part C of P.L. 90-576 upon the recommendation of the Research Coordinating Unit or the State Advisory Committee. Staff members of the R.C.U. will assist with the development of proposals and will provide liaison between the State Director and the Project Staff. The projects may be funded with 90% federal funds and 10% local or institutional funds. Proposals seeking funds shall be submitted to the State Director. These proposals will be reviewed by the staff of the R.C.U. and by specialists in the area and recommendations for approval or disapproval made to the State Director. Recommendations shall be based upon the quality of the proposal and its appropriateness to the needs of vocational-technical education of the state judged by research priorities developed by the R.C.U. Advisory Committee and approved by the State Director.

Any activity which results in research, development, or dissemination would be appropriate. Such activities as meetings, and conferences, would not be appropriate for funding. "Action" research, ex post fact studies, dissemination seminars, experimental programs would be considered appropriate.

The format should be adopted to the activity, but the proposal should contain, in general, the following items:

I. Title Page
II. The Abstract
III. The Body of the Proposal
    a. Problems and Objectives
        1. Statement of the problem or purposes
        2. Review of literature and/or related research
        3. Statement of objectives
        4. Rational of the study
    b. Description of Activities (Procedures)
    c. Use to be made of Findings
IV. Personnel and Facilities
V. Budget Section

OE 6000 (REV. 9-66)

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
OFFICE OF EDUCATION

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600 RETRIEVAL TERMS
601 *Educational Research — Research Projects
602 *Research Coordinating Units — Research Proposals
603 *State Programs — Oklahoma
604 *Vocational Education
605 *Information Dissemination
606

607 IDENTIFIERS
Oklahoma State Department of Vocational Technical Education

800 ABSTRACT
801 Activities of the Oklahoma Vocational Research Coordinating Unit (RCU) are
802 reported for the interim funding period from December 1, 1966 to August 31, 1968.
803 The objectives of the unit were coordinating research, generating new ideas,
804 assisting researchers, and disseminating results. A general information section
805 lists staff of the unit and priority problem areas given special attention during
806 the period. Unit activities listed are: (1) Activities in the Coordination of
807 Research, indicating group and individual conferences held for that purpose; (2)
808 Activities to Stimulate Research in Vocational-Technical Education, describing
809 conferences, listing 16 proposals submitted for funding and 42 projects completed
810 or in progress; (3) Activities in the Conduct of Research, an annotated list of
811 eight in-house studies such as the Follow-up Study of Vocational Students and a
812 Master Plan for Determination of Area Vocational-Technical School Districts and
813 Site Locations; (4) Activities to Disseminate Vocational-Technical Research
814 Findings, indicating media such as "VEIN," RCU Newsletter, and state meetings held
815 for dissemination purposes, and listing 17 reports distributed and published by
816 the unit; (5) Unit Activities in the Training of Researchers, describing work with
817 Unit research assistants and Small Grants Principle Investigators; (6) Other
818 Activities, listing national and regional conferences and other special activities;
819 (7) Future Activities for Oklahoma Vocational Research Coordinating Unit,
820 including the Research Section from the Oklahoma State Department of Vocational
821 and Technical Education Policies Handbook.
822